(a) The following are algebraic expressions.

$$
2 x \quad 3 x-2 \quad 3 x+2 \quad 3(x+2)
$$

Complete the table below by writing the correct algebraic expression from the list above next to the corresponding statement. You do not need to use all of the algebraic expressions.

| Statement | Algebraic Expression |
| :--- | :---: |
| Multiply $x$ by 3, then subtract 2 from the result. | $3 x-2$ |
| Double $x$. | $2 x$ |
| Add 2 to $x$, then multiply the result by 3. | $3(x+2)$ |

(b) Multiply out and simplify $(3 x-2)(2 x-3)$.
$=3 x(2 x-3)-2(2 x-3)$
$=6 x^{2}-9 x-4 x+6$
$=6 x^{2}-13 x+6$
(c) Factorise $x^{2}+2 x-15$.


